

13049 U.S. PTO  
103003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

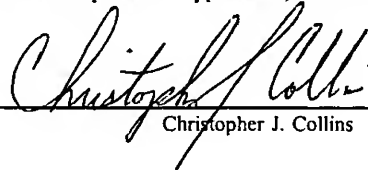
17497 U.S. PTO  
10/696889  
103003

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Mark A. Burns and Rohit Pal for **Thermal Micro-Valves for Micro-Integrated Devices**.

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the U.S. Postal Service on this date **October 30, 2003** in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number **EV 329482642** US addressed to: **Mail Stop Patent Application**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
\_\_\_\_\_  
Christopher J. Collins

1. **Type Of Application**  
This new application is for a(n)  
☒ Original (nonprovisional)
2. **Benefit Of Prior U.S. Application(s)** (35 U.S.C. §§ 119(e), 120, or 121)  
☒ The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are **ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.**
3. **Papers Enclosed That Are Required For Filing Date Under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application**  
51 Pages of Specification  
4 Pages of Claims  
1 Page of Abstract  
28 Sheets of Informal Drawings
4. **Declaration**  
☒ Enclosed  
☒ Unexecuted.
5. **Inventorship Statement**  
The inventorship for all the claims in this application is:  
☒ the same
6. **Language**  
☒ English
7. **Assignment**  
☒ An assignment of the invention to **The Regents of the University of Michigan** is attached.  
☒ Form PTO-1595 will follow.

8. **Fee Calculation (37 C.F.R. § 1.16)**

☒ Regular application

**CLAIMS AS FILED**

Number Filed	Number Extra	Rate	Basic Fee - \$770.00 (37 C.F.R. § 1.16(a))
Total Claims (37 C.F.R. § 1.16(c))	30 - 20 =	10 × \$18.00 =	\$180.00
Independent Claims (37 C.F.R. § 1.16(b))	3 - 3 =	0 × \$86.00 =	\$0.00
Multiple Dependent Claim(s), if any (37 C.F.R. § 1.16(d))	+ \$290.00 =		\$0.00
Filing Fee Calculation			\$950.00

9. **Small Entity Statement(s)**

☒ Verified Statement(s) that this is a filing by a small entity under 37 C.F.R. §§ 1.9 and 1.27.

**Filing Fee Calculation (50% of above)      \$475.00**

10. **Fee Payment Being Made At This Time**

☒ Enclosed

☒ basic filing fee

\$475.00

**Total Fees Enclosed      \$475.00**

11. **Method of Payment of Fees**

☒ Check in the amount of \$475.00

12. **Authorization To Charge Additional Fees and Credit Overpayment**

☒ The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No.: **08-1290**. An originally executed duplicate of this transmittal is enclosed for this purpose.

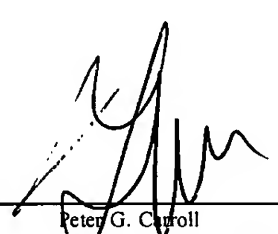
13. **Power of Attorney by Assignee**

☒ Enclosed

14. **Return Receipt Postcard**

☒ Enclosed

Dated: October 30, 2003

  
Peter G. Carroll  
Registration No.: 32,837

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617/984-0616

☒ **Incorporation By Reference Of Added Pages**

☒ Plus Added Pages For New Application Transmittal Where Benefit Of Prior U.S. Application(s)  
Claimed

Number of pages added 1

**ADDED PAGES FOR APPLICATION TRANSMITTAL  
WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED**

**15. Relate Back**

A. 35 U.S.C. § 119(e)

- ☒ Amend the Specification by inserting before the first line the sentence:  
"This is a conversion of the Provisional Application Number 60/423,5914  
filed on 11/04/02."

**16. Further Inventorship Statement Where Benefit Of Prior Application(s) Claimed**

- a. This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are  
☒ the same.